RAW SEQUENCE LISTING DATE: 08/17/2001 PATENT APPLICATION: US/09/755,830 TIME: 12:02:58

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167 168 169 170 172 173 174 175 177 178 181 182 183 185 186 187 190 191 193 194 195	<220 <222 <222 <400 aat Asn 1 gaa Glu tcg Ser ttg Leu gat Asp 65 aaa Lys	O> FI l> NA 2> LO 3> OO O> SI 9tt Val atg Met gga Gly tcg Ser 50 atc Ile aga Arg	EATUI AME/I CCAT: THER EQUED aaa Lys aat Asn gag Glu 35 gga Gly tgt Cys	RE: KEY: ION: INFO NCE: gta Val ggg Gly 20 aaa Lys gtt Val ggg Gly cac His	CDS (1).  CRMAT  2 gag Glu 5 gaa Glu atg Met gga Gly atc Ile act Thr 85	act Thr gaa Glu aat Asn ggc Gly att Ile 70 gga Gly	cag Gln tgt Cys ggc Gly att Ile 55 tgc Cys	agt Ser gcg Ala tcc Ser 40 cga Arg atc Ile	Asp gag Glu 25 cac His ctt Leu ggg Gly ccc Pro	Glu 10 gat Asp agg Arg cct Pro ccc Pro	Glu tta Leu gac Asp aac Asn aat Asn 75 cag Gln	Asn cga Arg caa Gln gga Gly 60 gtg Val tgc Cys	Gly atg Met ggc Gly 45 aaa Lys ctc Leu aat	ctt Leu 30 agc Ser cta Leu atg Met cag Gln	Ala .15 gat Asp tcg Ser aag Lys gtt Val tgc Cys 95	Cys gcc Ala gct Ala tgt Cys cac His 80 ggg Gly	96 144 192 240



PATENT APPLICATION: US/09/755,830

DATE: 08/17/2001 TIME: 12:02:58

Input Set : A:\10287-067001.TXT

Output Set: N:\CRF3\08162001\1755830.raw

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	tcc	aaa	σασ	aad	CCC	ttc	aaa	tac	cac	ctc	tac	aac	tac	acc	tac	cac	384
												Asn					331
202	Ser	GIY	115	БУЗ	FIO	riic	Lys	120	1113	пец	Cys	ASII	125	ALU	Cys	nig	
									~+~								422
												cac					432
	Arg	_	Asp	Ala	Leu	Thr	_	HlS	ьeu	Arg	Thr	His	ser	val	GTĀ	Lys	
207		130					135					140					
				-			_		-	_		aaa	_	_	_		480
		His	Lys	Cys	Gly	Tyr	Cys	Gly	Arg	Ser	${ t Tyr}$	Lys	Gln	Arg	Thr		
211	145					150					155					160	
213	tta	gag	gaa	cat	aaa	gag	cgc	tgc	cac	aac	tac	ttg	gaa	agc	atg	ggc	528
214	Leu	Glu	Glu	His	Lys	Glu	Arg	Cys	His	Asn	Tyr	Leu	Glu	Ser	Met	Gly	
215		•			165					170					175		
217	ctt	ccg	ggc	aca	ctg	tac	cca	gtc	att	aaa	gaa	gaa	act	aag	cac	agt	576
		-			_			-			_	Glu		_		-	
219			-	180		_			185	-				190			
	σaa	ato	αca	σaa	gac	cta	tac	aaσ	ata	σσα	t.ca	gag	aσa	tct	ctc	ata	624
												Glu					
223	014	1100	195	Q_u		200	0,0	200		011	001	0_0	205	-	200	, 41	
	ata	aa a		ota	aca	ant	aat		acc	222	cat	aag		tot	ata	cat	672
	_	_	_		_	_		-	_		_	Lys	-		_		072
	neu	_	ALG	Leu	мта	ser	215	Val	ніа	пуs	Ary	220	Ser	ser	Met	PIO	
227		210						~~~	~+~	+	~~~	-		<b>+</b> ~~			720
												acg					720
		гаг	Pne	ьeu	GIY	_	гуѕ	GTA	Leu	ser	_	Thr	PLO	туг	ASP		
	225					230					235					240	. =
	-	_			-	-						tcc			_	-	768
	Ala	Thr	Tyr	Glu		Glu	Asn	Glu	Met		Lys	Ser	His	Val		Asp	
235					245					250					255		
		-				-						gcc			_	-	816
	Gln	Ala	Ile	Asn	Asn	Ala	Ile	Asn	$\mathtt{Tyr}$	Leu	Gly	Ala	Glu	Ser	Leu	Arg	
239				260					265					270			
												gtg					864
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243			275					280					285				
245	agc	ccg	atg	tac	cag	ctg	cac	agg	cgc	tcg	gag	ggc	acc	ccg	cgc	tcc	912
246	Ser	Pro	Met	Tyr	Gln	Leu	His	Arg	Arg	Ser	Glu	Gly	Thr	Pro	Arg	Ser	-
247		290					295					300					
249	aac	cac	tcq	qcc	cag	gac	aqc	qcc	qtq	qaq	tac	ctg	ctg	ctq	ctc	tcc	960
												Leu					
	305					310					315					320	
		acc	aaσ	t.t.a	at.a	ccc	t.ca	σασ	cac	σασ	aca	tcc	cca	age	aac		1008
												Ser					
255	-10		-,0		325				5	330		~ ~-		~~~	335		
	tac	caa	gac	tee		gac	acc	nan	age		aac	gag	σασ	cad		age	1056
												Glu					1030
259	C13	0111	p	340	T 111	-12P	T 11T	JIU	345	*******	******	Jiu	Jiu	350	**** 9	JC1	
	aat	c++	ato		ata	200	227	020		acc	CGS	cgc	aca		CGC	ata	1104
																	1104
202	стА	ьeu	тте	TAL	neu	THE	ASI	HIS	тте	ATG	Arg	Arg	ATG	GTII	Arg	۷aT	

PATENT APPLICATION: US/09/755,830

DATE: 08/17/2001 TIME: 12:02:58

Input Set : A:\10287-067001.TXT

Output Set: N:\CRF3\08162001\1755830.raw

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266	Ser	Leu	Lys	Glu	Glu	His	Arg	Ala	Tyr	Asp	Leu	Leu	Arg	Ala	Ala	Ser		
267		370					375					380						
		aac															120	0
270	Glu	Asn	Ser	Gln	Asp	Ala	Leu	Arg	Val	Val	Ser	Thr	Ser	Gly	Glu	Gln		
	385					390					395					400		
	_	-			_	_	_		_					_	_	cac	124	8
	Met	Lys	Val	Tyr	Lys	Cys	Glu	His	Cys	_	Val	Leu	Phe	Leu	Asp	His		
275					405					410					415			
		atg															129	96
	Val	Met	Tyr		Ile	His	Met	Gly	_	His	Gly	Phe	Arg	_	Pro	Phe		
279				420					425					430				
		tgc															134	4
	Glu	Cys		Met	Cys	Gly	Tyr		Ser	Gln	Asp	Arg	_	Glu	Phe	Ser		
283			435					440					445					
		cac												taa			138	36
	ser	His	тте	Thr	Arg	GTÄ		Hls	Arg	Pne	Hls		Ser					
287	-01	450			_		455					460						
		0> SE																
		1> LE			296													
		2> TY			Mug	muca	1	,										
		3> OF 0> FE			Mus	muse	Julus	j										
		1> NA			CDG													
200	~~~.	- 142	71.17.\ r															
	<222	2> T.C					1296	١										
297		2> LC 3> O1	CAT	ON:	(1)													
297 298	<223	3> O1	CAT THER	ON: INFO	(1) ORMA													
297 298 300	<223 <400	3> 01 0> SE	CATI THER EQUE	ION: INFO ICE:	(1) DRMA: 3	TION	mI)	c-3	atσ	tcc	caa	at.t.	tca	gga	ааσ	gag	4	.8
297 298 300 301	<223 <400 atg	3> 01 0> SE gat	CATI THER EQUEN gtc	ON: INFO NCE: gat	(1) DRMA: 3 gag	rion ggt	: mI)	c-3 gac									4	8
297 298 300 301	<223 <400 atg	3> 01 0> SE	CATI THER EQUEN gtc	ON: INFO NCE: gat	(1) DRMA: 3 gag	rion ggt	: mI)	c-3 gac									4	8
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297 298 300 301 302 303 305 306 307 309	<223 <400 atg Met 1 agc Ser	3> OT 0> SE gat Asp ccc Pro	CATI THER QUEN gtc Val cca Pro	ION: INFO NCE: gat Asp gtc Val 20 gac	(1) ORMAN 3 gag Glu 5 agt Ser	ggt Gly gac Asp	caa Gln act Thr	gac Asp cca Pro	Met gat Asp 25 tct	Ser 10 gaa Glu gga	Gln ggg Gly gca	Val gat Asp cag	Ser gag Glu cag	Gly ccc Pro 30 aac	Lys 15 atg Met tcc	Glu cct Pro	9	6
297 298 300 301 302 303 305 306 307 309	<223 <400 atg Met 1 agc Ser	3> 07 0> SE gat Asp ccc Pro	CATI THER QUEN gtc Val cca Pro	ION: INFO NCE: gat Asp gtc Val 20 gac	(1) ORMAN 3 gag Glu 5 agt Ser	ggt Gly gac Asp	caa Gln act Thr	gac Asp cca Pro	Met gat Asp 25 tct	Ser 10 gaa Glu gga	Gln ggg Gly gca	Val gat Asp cag	Ser gag Glu cag	Gly ccc Pro 30 aac	Lys 15 atg Met tcc	Glu cct Pro	9	6
297 298 300 301 302 303 305 306 307 309 310 311 313	<223 <400 atg Met 1 agc ser gtc Val	3> OT 0> SE gat Asp ccc Pro cct Pro	CCATION OF THER EQUENTS OF THE PROPERTY OF T	ION: INFO NCE: gat Asp gtc Val 20 gac Asp	(1) ORMAN 3 gag Glu 5 agt Ser ctg Leu atg	ggt Gly gac Asp tcc Ser	caa Gln act Thr act Thr	gac Asp cca Pro acc Thr 40 aat	Met gat Asp 25 tct Ser gtt	Ser 10 gaa Glu gga Gly aaa	Gln ggg Gly gca Ala gta	Val gat Asp cag Gln gag	ser gag Glu cag Gln 45 act	CCC Pro 30 aac Asn	Lys 15 atg Met tcc ser	CCT Pro aag Lys	9	6
297 298 300 301 302 303 305 306 307 309 310 311 313	<223 <400 atg Met 1 agc ser gtc Val	3> OT 0> SE gat Asp ccc Pro cct	CCATION OF THER EQUENTS OF THE PROPERTY OF T	ION: INFO NCE: gat Asp gtc Val 20 gac Asp	(1) ORMAN 3 gag Glu 5 agt Ser ctg Leu atg	ggt Gly gac Asp tcc Ser	caa Gln act Thr act Thr	gac Asp cca Pro acc Thr 40 aat	Met gat Asp 25 tct Ser gtt	Ser 10 gaa Glu gga Gly aaa	Gln ggg Gly gca Ala gta	Val gat Asp cag Gln gag	ser gag Glu cag Gln 45 act	CCC Pro 30 aac Asn	Lys 15 atg Met tcc ser	CCT Pro aag Lys	9	6
297 298 300 301 302 303 305 306 307 309 310 311 313	<223 <400 atg Met 1 agc ser gtc Val	3> OT 0> SE gat Asp ccc Pro cct Pro	CCATION OF THER EQUENTS OF THE PROPERTY OF T	ION: INFO NCE: gat Asp gtc Val 20 gac Asp	(1) ORMAN 3 gag Glu 5 agt Ser ctg Leu atg	ggt Gly gac Asp tcc Ser	caa Gln act Thr act Thr	gac Asp cca Pro acc Thr 40 aat	Met gat Asp 25 tct Ser gtt	Ser 10 gaa Glu gga Gly aaa	Gln ggg Gly gca Ala gta	Val gat Asp cag Gln gag	ser gag Glu cag Gln 45 act	CCC Pro 30 aac Asn	Lys 15 atg Met tcc ser	CCT Pro aag Lys	9	6
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297 298 300 301 302 303 305 306 307 309 310 311 313 314 315 317 318 319 321	<223 <400 atg Met 1 agc Ser gtc Val agt Ser gaa Glu 65 gat	3> OT 9 SE 9 at Asp CCC Pro CCT Pro 9 at Asp 50 9 ag Glu	CCATION OF THER SQUENT OF THE	ON: INFO INFO ICE: gat Asp gtc Val gac Asp ggc Gly ggg Gly atg	(1) DRMAS 3 gag Glu 5 agt Ser ctg Leu atg Met cgt Arg ctt	ggt Gly gac Asp tcc Ser gcc Ala 70 gat	caa Gln act Thr act Thr agt Ser 55 tgt Cys	gac Asp cca Pro acc Thr 40 aat Asn gaa Glu	Met gat Asp 25 tct Ser gtt Val atg Met gga	Ser 10 gaa Glu gga Gly aaa Lys aat Asn	Gln  ggg Gly  gca Ala  gta Val  ggg Gly  75 aaa	yal gat Asp cag Gln gag Glu 60 gaa Glu atg	Ser  gag Glu  cag Gln  45 act Thr  gaa Glu  aat	Gly ccc Pro 30 aac Asn cag Gln tgt Cys	Lys 15 atg Met tcc ser agt ser gca Ala tcc	Cct Pro aag Lys gat Asp gag Glu 80 cac	9 14	4 2 0
297 298 300 301 302 303 305 306 307 319 311 313 314 315 317 318 319 321 322	<223 <400 atg Met 1 agc Ser gtc Val agt Ser gaa Glu 65 gat	3> OT 9 st gat Asp ccc Pro cct Pro gat Asp 50 gag Glu	CCATION OF THER SQUENT OF THE	ON: INFO INFO ICE: gat Asp gtc Val gac Asp ggc Gly ggg Gly atg	(1) DRMAS 3 gag Glu 5 agt Ser ctg Leu atg Met Cgt Arg ctt Leu	ggt Gly gac Asp tcc Ser gcc Ala 70 gat	caa Gln act Thr act Thr agt Ser 55 tgt Cys	gac Asp cca Pro acc Thr 40 aat Asn gaa Glu	Met gat Asp 25 tct Ser gtt Val atg Met gga	Ser 10 gaa Glu gga Gly aaa Lys aat Asn gag Glu	Gln  ggg Gly  gca Ala  gta Val  ggg Gly  75 aaa	yal gat Asp cag Gln gag Glu 60 gaa Glu atg	Ser  gag Glu  cag Gln  45 act Thr  gaa Glu  aat	Gly ccc Pro 30 aac Asn cag Gln tgt Cys	Lys 15 atg Met tcc Ser agt Ser gca Ala tcc Ser	Cct Pro aag Lys gat Asp gag Glu 80 cac	9 14 19 24	4 2 0
297 298 300 301 302 303 305 306 307 319 311 313 314 315 317 318 319 321 322 323	<pre>&lt;223 &lt;400 atg Met 1 agc Ser gtc Val agt Ser gaa Glu 65 gat Asp</pre>	3> OT 9 SE 9 at Asp ccc Pro cct Pro gat Asp 50 gag Glu tta Leu	CCA GLC GLC Val CCA Pro Glu 35 CGA Arg aat Asn CGA	ON: INFO INFO ICE: gat Asp gtc Val 20 gac Asp ggc Gly ggg Met	(1) DRMAS 3 gag Glu 5 agt Ser ctg Leu atg Met Cgt Arg ctt Leu 85	ggt Gly gac Asp tcc Ser gcc Ala 70 gat Asp	caa Gln act Thr act Thr agt Ser 55 tgt Cys	gac Asp cca Pro acc Thr 40 aat Asn gaa Glu tcg Ser	Met gat Asp 25 tct Ser gtt Val atg Met gga Gly	Ser 10 gaa Glu gga Gly aaa Lys aat Asn gag Glu 90	Gln  ggg Gly  gca Ala  gta Val  ggg Gly  75 aaa Lys	yal gat Asp cag Gln gag Glu 60 gaa Glu atg Met	Ser gag Glu cag Gln 45 act Thr gaa Glu aat Asn	CCC Pro 30 aac Asn cag Gln tgt Cys	Lys 15 atg Met tcc Ser agt Ser gca Ala tcc Ser 95	CCt Pro aag Lys gat Asp gag Glu 80 cac	9 14 19 24	6 4 2 0
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297 298 300 301 302 303 305 306 307 319 311 313 314 315 317 318 319 321 322 323 325	<223 <400 atg Met 1 agc Ser gtc Val agt Ser gaa Glu 65 gat Asp	3> OT 9 SE 9 at Asp ccc Pro cct Pro gat Asp 50 gag Glu tta Leu	CCATION OF THER EQUENTS OF THE PROPERTY OF THE	ION: INFO INFO INFO INFO INFO INFO INFO INFO	(1) RMAT 3 gag Glu 5 agt Ser ctg Leu atg Met Arg ctt Leu 85 agc	ggt Gly gac Asp tcc Ser gcc Ala 70 gat Asp	caa Gln act Thr act Thr agt Ser 55 tgt Cys gcc Ala	gac Asp cca Pro acc Thr 40 aat Asn gaa Glu tcg Ser	Met gat Asp 25 tct Ser gtt Val atg Met gga Gly tca	Ser 10 gaa Glu gga Gly aaa Lys aat Asn gag Glu 90 gga	Gln  ggg Gly  gca Ala  gta val  ggg Gly  75 aaa Lys gtt	Val gat Asp cag Gln gag Glu 60 gaa Glu atg Met	gag Glu cag Gln 45 act Thr gaa Glu aat Asn	CCC Pro 30 aac Asn cag Gln tgt Cys	Lys 15 atg Met tcc ser agt Ser gca Ala tcc ser 95 cga	CCt Pro aag Lys gat Asp gag Glu 80 cac His	9 14 19 24	6 4 2 0

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/755,830

DATE: 08/17/2001 TIME: 12:02:59

Input Set : A:\10287-067001.TXT

Output Set: N:\CRF3\08162001\I755830.raw

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L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L\!:\!997 M\!:\!341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
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